



Cleveland Flash Point Apparatus

Available Variants

- Cleveland Flash Point Apparatus With Digital Temperature Indicator
- Cleveland Flash Point Apparatus With Energy Regulator
- Cleveland Flash Point Apparatus With In-Built PC – Fully Automatic – ASTM D92

Key Features

1. High Accuracy
2. User-Friendly Interface
3. Robust Construction
4. Wide Application
5. Safety Compliance
6. Combined wick system arrangement with gas jet or oil wick arrangement
7. Automatic operation with touch screen display
8. Automatic barometric pressure correction
9. Interchangeable gas or electric igniter source
10. Automatic flame extinguisher
11. Stores more than 500 test/results
12. User-defined methods and procedures

Compliance Standards

- ASTM D92
- IP 36/57
- IS 1448 (P-69)
- ISO 2592 : 2017

Application

- This apparatus is used for determination of Flash Point of petroleum products except fuel oil with open flash above 80°C as per specification given in IP 36/57, IS 1448 (P:69) 1969 and ASTM-D-92-67.
- The Energy Regulator variant is used for determination of Flash Point of petroleum products with open flash between 79°C - 400°C as per specification IP 36/57, IS 1448 (P:69) 2019 and ASTM-D-92.

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GST TIN No. : 24AABCE4018L1ZU
I.T. PAN No. : AABCE 4018L
IEC No. : 0813026598 Dt. 04/03/2014
CIN No. : U29199GJ2004PTC045078
TAN No. : AHME00572F



Significance & Use

- Flash point is used in shipping and safety regulations to define flammable and combustible materials. Flash point can indicate the possible presence of highly volatile and flammable materials in a relatively nonvolatile or nonflammable material. The flash point is one measure of the tendency of the test specimen to form a flammable mixture with air under controlled laboratory conditions.

Construction Details

- The apparatus consists of the test cup, heating plate, test flame applicator, heater and supports as described in IP and ASTM specifications.
- Complete apparatus manufactured from Brass or Stainless Steel Material.
- Heater controlled by energy regulator and temperature displayed on Digital Temperature Indicator.
- Suitable for operation on 220 Volts, 50 cycles AC mains supply.
- Aesthetic outer appearance.
- Low cost model with arbitrary control over the rate of rise of temperature.

Technical Details

- Standalone model with touch screen display
- Easy operation with automatic test procedure and result storage
- Rapid heating procedure for high flash point
- Search programs for unknown samples
- Interchangeable gas or electric igniter source
- Automatic barometric pressure correction
- Interlocks for safe operation
- Stores more than 500 test/results
- User-defined methods/procedures
- Windows based user-friendly software
- In-built method and results storage
- 8.4" touch screen display
- LIMS compatibility with RS 232, LAN, Wi-Fi, Bluetooth and USB Ports
- Coil type heater, 450 watt @ 230VAC
- Heat rate from 1 to 20°C/min
- Centrifugal Blower 56.5 CFM, 35 watt @ 230VAC
- Stepper Motor controlled movement
- Automatic DC motor controlled swing arm
- Automatic flame extinguishing
- PT-100 Class A sample temperature sensor
- PT-100 Class A bath temperature sensor

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- 22. Ionization ring for flash detection
- 23. Built-in pressure sensor
- 24. Thermal sensor for fire detection

Calibration

- Sample temperature sensor calibration
- Barometric pressure sensor calibration

Safety Interlocks

1. Temperature sensor defect detection
2. Flash detector defect detection
3. Electric igniter failure detection
4. Test stop above expected Flash Point or at 400°C
5. Fire detection with warning buzzer and power cut-off
6. Arm position detection

Specifications

Variant	Specifications
Digital Temperature Indicator	• Overall Dimensions: 16 × 9 × 7 Inches • Net Weight: 6 kg • 220 Volts, 50 Cycles AC Mains • Digital Temperature Indicator • Combined Wick System Arrangement – Gas Jet or Oil Wick
Energy Regulator	• 220 Volts, 50 Cycles AC Mains • Heater Controlled by Energy Regulator • Cup Heating Plate • Thermometer Clip • Test Flame Applicator with Swivel Joint
In Built PC Fully Automatic	• Heating: Coil Type Heater, 450 W @ 230 VAC • Heat Rate: 1–20°C/min • Cooling: Centrifugal Blower, 56.5 CFM, 35 W @ 230 VAC • Sample Temp: PT-100 Class A, SS Sheath, 0–400°C • Bath Temp: PT-100 Class A, Disk Type, 0–500°C • Flash Detection: Ionization Ring • Ambient Pressure: 700–1100 hPa (500–800 mmHg) • Fire Detection: Thermal Sensor • Power Supply: 230 V, 50 Hz, 1500 W • Housing: W410 × D420 × H330 mm • Weight: 16 kg • Ambient Temp: 10–35°C • Relative Humidity: 80% at 35°C

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